FA-1.2 Rev. 1
NCC98
08/12/97

Title: Forecast Scheduling Operations Scenario New Enhancements

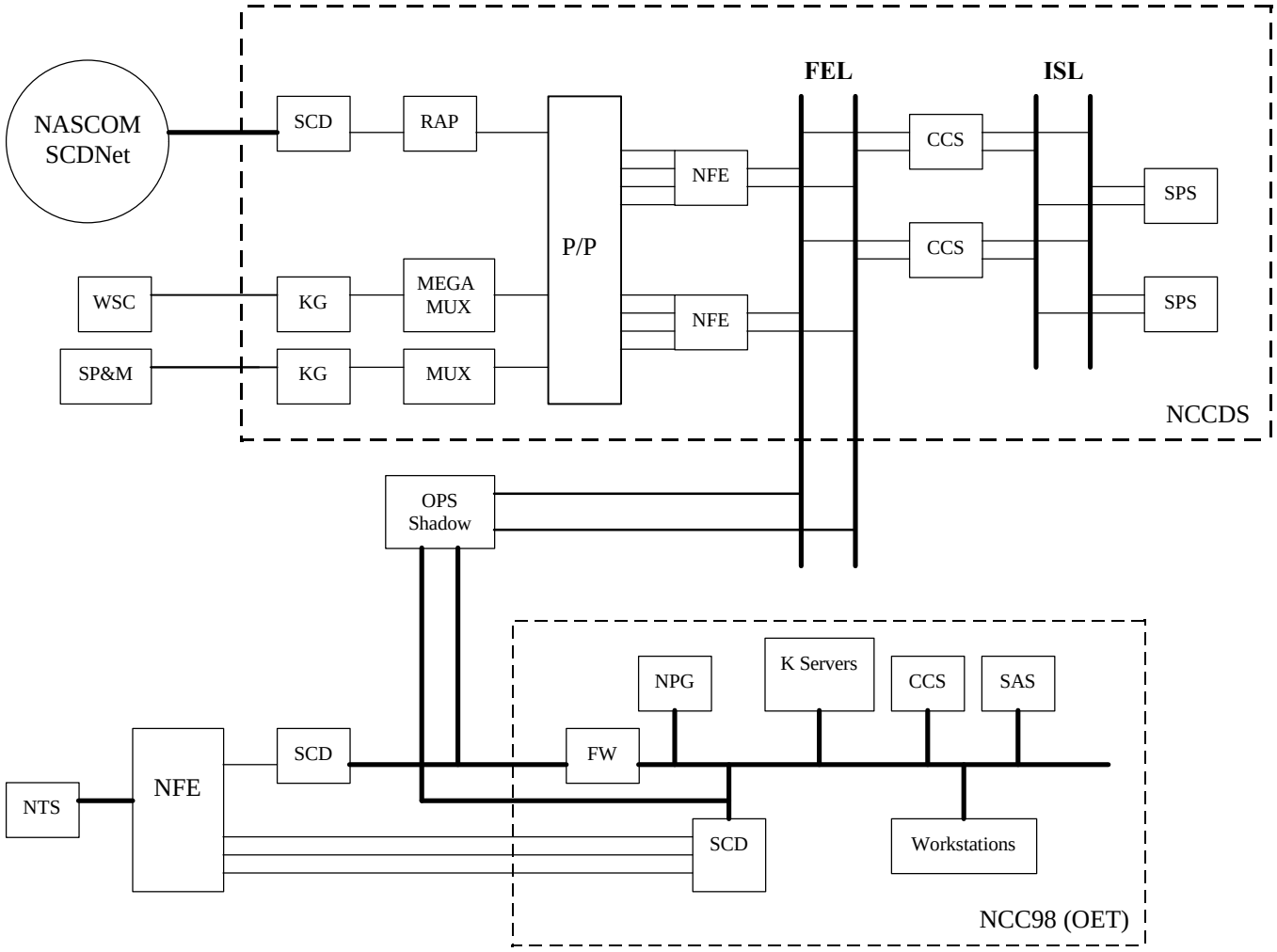
Objectives:

- Verify Flexible Service and Event Start/Stop Times
- Verify Flexible Service and Event Duration
- Verify Replace Request
- Verify Wait listing
- Verify Alternate Requests
- Verify TSWs
- Verify TDRS Resource Availability
- Verify Transmissions
  - ⇒ STRS's
- Verify Customer Priorities
- Verify TDRS H, I, J Event(s)
- Train SO and fill out skills catalogs and Training Event Reports (TERs).
- Document Verification

Configuration:
System will be configured in the shadow mode for the entire test to allow receipt of external messages (99/10s & 99/11s from the POCCs) throughout the run. All operator actions resulting in system output will be directed to NTS or UPS. Scheduling will be done in the Batch Mode.
The equipment strings to be utilized while in the shadow mode will include on the Operations side SPS, CCS, NFE, and RAP. The Test equipment will include NTS, LISTNER, FIREWALL (connected to the WWW), NPG,NSM, CCS, SAS, SPSR, NSM Workstation, and SPSR Workstations. (See figure next page.)

Prerequisites:
- Test/Operations passwords configured
- NSIA will configure system in shadow mode.
- Ensure Database is set for Full Support and TDRS H,I,J Customers.
- Ensure Wait Listed and Alternate Requests are included in the Schedule prior to Activation. (To be used in SO-1.2)
- Operator will review the SPSR User's Guide.

Data Source:
Data will originate from operations and NTS/UPS.



Ops Scenario: (Italicized steps are performed by NSIA, all others are performed by the operator.)

SCHEDULE MAINTENANCE CONTROL

1. Logon to the workstation
2. Review current Batch Boundary and current settings of absolute and relative boundaries.
3. Verify Batch Boundary is set to 14 - 21 days in the future.
4. Review Alert Period Parameters.
5. Set the Batch Request Receipt Alert Period to the 14 to 21 days from current day**.**

RECEIPT/VALIDATION OF SCHEDULES

6. Shadow receipt of actual operations forecast schedules from the POCCs on Monday.
7. Verify receipt and validation of schedule requests and transmission of SRMs.

FORECAST SCHEDULE

8. Block resource NO USER times with S0200PMs based on OPM-54's (if applicable) for the Forecast period.

9. *From UPS or NTS transmit the following*
   a. *TSWs for Full Support Users*
   b. *A SAR with Flexible Service and Event Start/Stop Times*
   c. *A SAR with Flexible Service and Event Duration s*
   d. *Replace Request*
   e. *Wait listing*
   f. *Alternate Requests*
   g. *SAR s with other than nominal Customer Priorities (i.e. Critical support Orbit Adjust maneuver).*
   h. *SAR s using Normal and STS User HIJ Services.*
      - *SA/SMAR*
      - *MA/SMAF*
      - *End to End*

SCHEDULE GENERATION

10. Generate several alternate schedules based on several scheduling Priority lists.
11. Compare alternate forecast schedules using SPSR generated Statistics, and select the most effective forecast schedule.

RESOURCE AVAILABILITY

12. Generate a Resource availability report for the Forecast period.

Edits

13. Based on Resource Availability report perform conflict resolution to augment the selected forecast schedule.
14. Edit the originals of some declined requests.
15. Verify the edits.
16. Perform another schedule generation run.

SCHEDULE ACTIVATION

17. Execute initial Activation mode transmission.
18. Activate the forecast schedule.
19. *Verify distribution of SRMs for the declined requests and USMs for the scheduled events.*

TRANSMISSIONS

20. Setup Transmission Rule Sets to inhibit Automatic Schedule Transmission to a MOCC at a specified time.
21. Transmit Confirmed Schedules to MOCC's.
22. *Backup Database for future reuse.*

NCD

23. Operator should perform a delog to analyze incoming 99/10's, 99/11's, 99/12's, 99/21's, 9924's and 99/25's..

Roles and Responsibilities:

FA:

- Observe shadowing of receipt of schedule requests.
- Conduct generation of alternate forecast schedules.
- Evaluate/compare alternate schedules and select the most effective forecast schedule.
- Perform conflict resolution on selected schedule.
- Activate schedule.
- Train SO and fill out skills catalogs and Training Event Reports (TERs).
- Checkout redlined version of LOPs including, but not limited to:
  - NCC-LOP-002 OPM-59 Message Processing

- NCC-LOP-006 OPM-54 WSC Scheduling Request Message Processing
- SU-FA-LOP-001 Scheduling SHOS for the WSC MRT
- SU-FA-LOP-002 Disabling the Forecast Position
- SU-FA-LOP-003 Scheduling GRTS Events in the Forecast Period

NSIA:

- One NSIA engineer required.
- Configure system.
- Perform all italicized steps in test case.
- Observe shadowing of receipt of schedule requests.
- Observe/assist FA in completion of all schedule generation and activation activities.

DOCS:

- Checkout redlined version of the following documents:
  - 532-HB-NCC/SO Scheduling Handbook (Forecast Section).
  - 532-UG-NCC/SPS-1&2 SPS 1&2 User's Guide
    532-UG-NCC/SPS-3 SPS-3 (DT&T) User's Guide

Estimated Run Time:

4 hours run time

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